# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
10002481WOO1	ACTION	as well	as, where applicable, item 5 below.
International application No.	International filing date (day/month	r/year)	(Earliest) Priority Date (day/month/year)
PCT/JP2005/012266	27/06/2005		28/06/2004
Applicant			
CANON KABUSHIKI KAISHA			
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Sea ansmitted to the International Bureau	rching Aut J.	nority and is transmitted to the applicant
This International Search Report consists	of a total of 5 sh	ets.	
	a copy of each prior art document o		report.
Basis of the report     With regard to the language, the language in which it was filed, un	international search was carried out less otherwise indicated under this i	on the ba	sis of the international application in the
	search was carried out on the basis		lation of the international application furnished to
1		disclosed	in the international application, see Box No. 1.
2. Certain claims were fou	and unsearchable (See Box II).		
3. Unity of invention is lac	eking (see Box III).		
4. With regard to the title,			
X the text is approved as s	ubmitted by the applicant.		
l Land	shed by this Authority to read as foll	ows:	
5. With regard to the abstract,			
	ubmitted by the applicant.	thic Autho	rily as it appears in Box No. IV. The applicant
the text has been estable may, within one month fi	om the date of mailing of this intern	ational sea	rity as it appears in Box No. IV. The applicant arch report, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be	published with the abstract is Figure	No. <u>1a</u>	-1e
as suggested by			
1	nis Authority, because the applicant		
. —	his Authority, because this figure be	ter charac	terizes the invention.
b. none of the figures is to	be published with the abstract.		

Form PCT/ISA/210 (first sheet) (January 2004)

International application No.

PCT/JP2005/012266

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

According to the present invention, a method for manufacturing a liquid discharge head includes the steps of depositing a solid layer(3) for forming a flow path on a substrate(1) on which an energy generating element(2) is arranged to generate energy that is used to discharge liquid, forming, on the substrate where the solid layer is mounted, a coating layer(4) for coating the solid layer, forming a discharge port(7) used to discharge a liquid, through a photolithographic process, in the coating layer formed on the solid layer, and removing the solid layer to form a flow path(8) that communicates with the energy element and the discharge port, whereby a material used for the coating layer contains a cationically polymerizable chemical compound, cationic photopolymerization initiator and a inhibitor of cationic photopolymerization, and whereby a material of the solid layer that forms a boundary with a portion where the discharge port of the coating layer is formed contains a copolymer of methacrylic anhydride and methacrylate ester.

International Application No PCT/JP2005/012266

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A. CLASSI	FICATION OF SUBJECT MATTER B41J2/16 G03F7/00					
According to	o International Patent Classification (IPC) or to both national classification	ation and IPC				
B. FIELDS	SEARCHED					
Minimum do	cumentation searched (classification system followed by classification B41J G03F	on symbols)				
Documentat	ion searched other than minimum documentation to the extent that s	uch documents are inclu	ded in the fields searched			
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical,	search terms used)			
EPO-Internal, PAJ, WPI Data						
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT					
Calegory *	Citation of document, with indication, where appropriate, of the reli	evant passages	Relevant to claim No.			
Υ	EP 1 380 425 A (CANON KABUSHIKI K 14 January 2004 (2004-01-14) paragraphs '0036! - '0038!, '004 paragraphs '0052! - '0064! paragraphs '0078! - '0094! figures 1A-2D,10-18	,	1-9			
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X Furth	ner documents are listed in the continuation of box C.	X Patent family m	nembers are listed in annex.			
*Special categories of cited documents:  'A' document defining the general state of the art which is not considered to be of particular relevance  'E' earlier document but published on or after the international filing date  'T' later document published after the international filing date  or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  'X' document of particular relevance; the ctaimed invention cannot be considered novel or cannot be considered to						
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  *O' document referring to an oral disclosure, use, exhibition or other means  *P' document published prior to the international filing date but later than the priority date claimed  *Step of document which may throw doubts on priority claim(s) or which is claimed invention and tocument is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  *Step of document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone by document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone by document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone by document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone by document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone by document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone by document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is alone.						
	actual completion of the international search		of the same patent family			
Date of the actual completion of the international search  16 November 2005  Date of mailing of the international search report  06/12/2005						
Name and m	nailing address of the ISA	Authorized officer				
	European Palent Office. P.B. 5818 Palentlaan 2 NL - 2280 HV Rijswijk Td. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Patosuo	, S			

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C.(Continua	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	
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Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 24, 11 May 2001 (2001-05-11) -& JP 2001 179990 A (CANON INC), 3 July 2001 (2001-07-03) cited in the application abstract paragraphs '0010! - '0012! paragraphs '0019!, '0023! - '0060! paragraphs '0075! - '0080!	1-9
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Information on patent family members

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